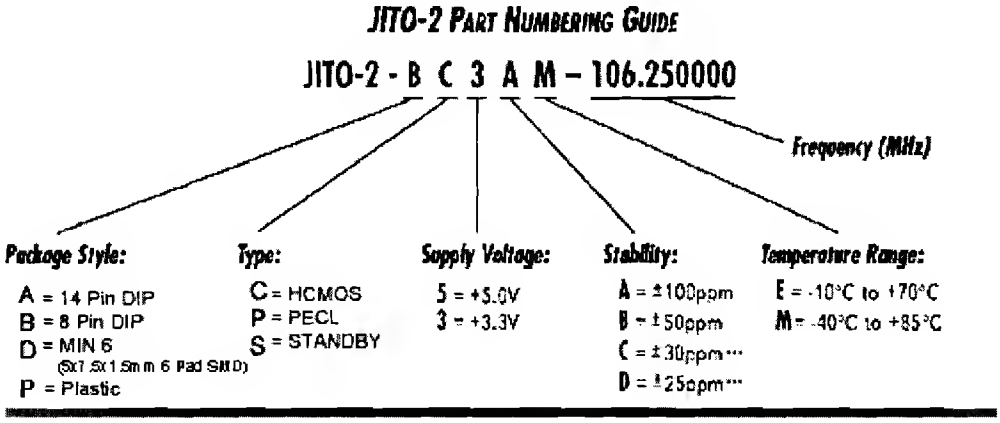
JITO-2 Ordering Guide

Use the part numbering guide below to order the JITO-2 Oscillator you need:

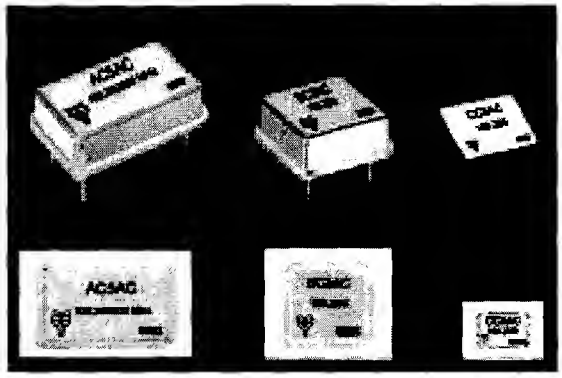


If you need assistance in selecting the proper JITO oscillator for your specific application, Fox's skilled technical support team will be glad to assist you. Just email or call 941-693-0099.

FOX Electronics, 5570 Enterprise Parkway, Fort Myers, FL 33905, Phone: 941-693-0099, Fax: 941-693-1554,
Sales/Customer Service, Tech Support, Webmaster,

JUST-IN-TIME OSCILLATORS
JITO

The new JITO (Just-In-Time Oscillators) line represents Fox's latest contribution to helping buyers and engineers alike meet the increasing pressure of bringing new designs and products to market faster and more efficiently. This new line of crystal oscillators cuts the industry standard lead time of 10 weeks down to just 10 working days for custom frequency oscillators; 48 hours for evaluation units. Engineers need custom frequencies as quickly as possible to test and prove their prototypes. Production people need to know that custom frequency products can be accessed quickly without holding up their line. And buyers have to ensure they can satisfy both engineering and production needs. The JITO line provides a total solution to those requirements by cutting industry standard lead times by an average of 90%.



Actual Sizes

JITO™

JUST-IN-TIME OSCILLATORS™

FEATURES

- Custom and standard frequencies from 340 kHz up to 250 MHz
- ±100 PPM, ±50 PPM, ±30 PPM, ±25 PPM Stability
- 3.3 or 5 Volts; -10 to 70 °C or -40 to 85 °C Operating Temperature
- Both SMD and thru-hole packaging available
- Fox Quality built-in

• ELECTRICAL CHARACTERISTICS (Ta = 25°C, CL = Max Load)

PARAMETERS	FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range (Fo)			0.340	250.000	MHz
Frequency Stability	0.340 ~ 250.000	All Conditions *	-100 -50 -30 -25	+100 +50 +30 +25	PPM
Temperature Operating (TOPR) Storage (TSTG)	0.340 ~ 250.000		-10 -40 -55	+70 +85 +125	°C
Supply Voltage (VDD)	0.340 ~ 250.000		+4.5 +3.0	+5.5 +3.6	V
Input Current (IDD)	0.340 ~ 250.000	(VDD = 5.0V) Max Load (VDD = 3.3V) Max Load		45 25	mA
Output Symmetry	0.340 ~ 125.000 100.000+ ~ 250.000	50% VDD Level	45 40	55 60	%
Rise Time (TR) Fall Time (TF)	0.340 ~ 250.000	10%~90% VDD Level 90%~10% VDD Level		5 5	nS
Output Voltage (VOL) (VOH) (VOL) (VOH)	0.340 ~ 250.000	(VDD = 5.0V) IOL = 4 mA (VDD = 5.0V) IOH = -4 mA (VDD = 3.3V) IOL = 2mA (VDD = 3.3V) IOH = -2 mA	 VDD-0.5V VDD-0.33V	0.5 0.33 	V
Output Current (IOL) (IOH) (IOL) (IOH)	0.340 ~ 250.000	VOL = 0.5V VOH = VDD -0.5V VOL = 0.33V VOH = VDD -0.33V	 	4 -4 2 -2	mA
Output Load	0.340 ~ 100.000 100.000+ ~ 250.000	(VDD = 5.0V) HCMOS		25 10	pF
	0.340 ~ 100.000 100.000+ ~ 250.000	(VDD = 3.3V) HCMOS		15 10	
Start-up Time (TS)	0.340 ~ 250.000			10	mS

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.
Note: A 0.01µF bypass capacitor should be placed between VDD and GND to minimize power supply line noise.
All specifications subject to change without notice. Rev. 7/18/98

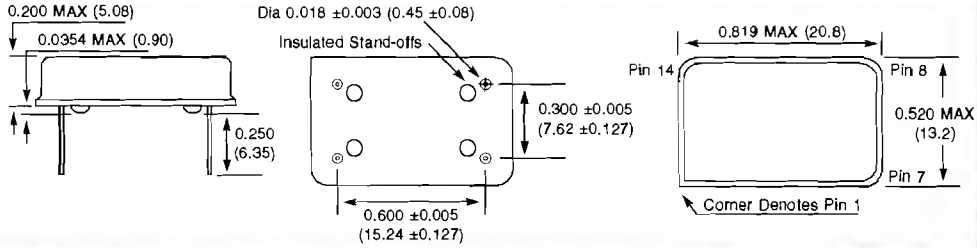
JUST-IN-TIME OSCILLATORS

JITO

FULL SIZE
14 PIN DIP

Pin Connections
#1 N.C. #8 Output
#7 GND #14 VDD

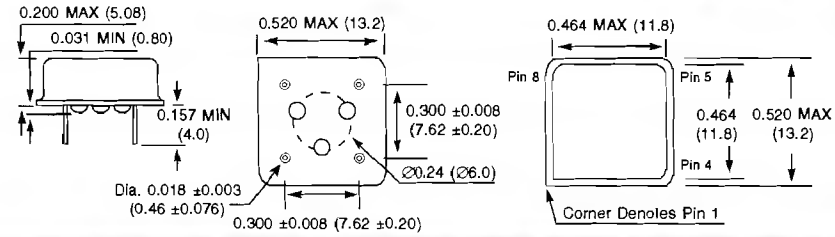
Package A



HALF SIZE
8 PIN DIP

Pin Connections
#1 N.C. #5 Output
#4 GND #8 VDD

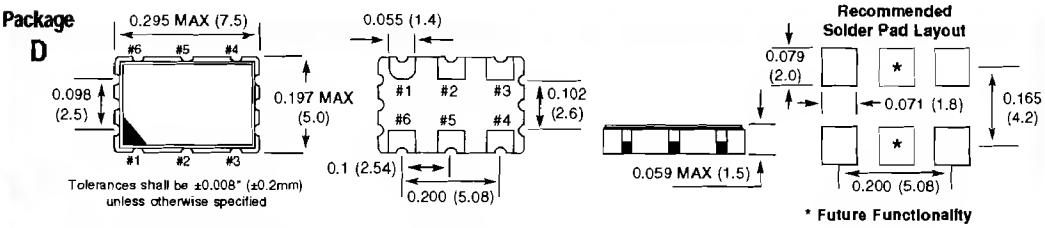
Package B



MIN-6
SMD

Pin Connections
#1 E/D #4 Output
#2 N.C.* #5 N.C.*
#3 GND #6 VDD

Package D



Inch dimensions shall govern. All dimensions are in inches & parenthetically in millimeters. **Patent Pending**